Congratulations on Your new Hi-Fi Stereo Record Player. Your Beogram 2000 plays all record sizes and has two speeds. Its specifications exceed DIN 45 500 standards in every respect.

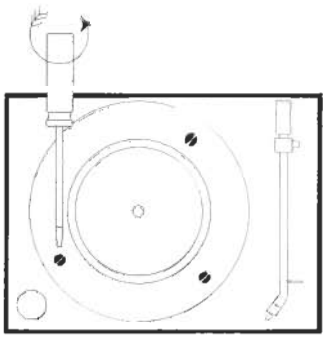
Your Beogram 2000 is easy to operate. All functions are controlled by a central knob which consists of a pushbutton and a record-size and speed selector. Your Beogram 2000 uses an SP 10 A pickup which is equippped with a spherical naked diamond. Low stylus pressure of 1,2 grammes (ponds). The pickup arm features self-adjusting anti-skating device.

Even if your Beogram 2000 is very easy to operate we nevertheless suggest that you read these instructions first.

It is especially important that your Beogram 2000 is correctly assembled and set up after you have unpacked it. Both the quality of the sound reproduction and the handling of your precious records depend on it. Your dealer can set up your Beogram 2000 for you if you wish.

Yours faithfully,

Bang & Olufsen



Setting up

Transit Protection

Your Beogram 2000 is secured in various ways against damage during transit.

The resilient suspension which carries the turntable and pickup arm is secured by three large screws. They should not be removed but merely turned anti-clockwise, using a screwdriver, until they go against the stops.

The following components are not mounted in place during transit, but are placed in the packing inserts:

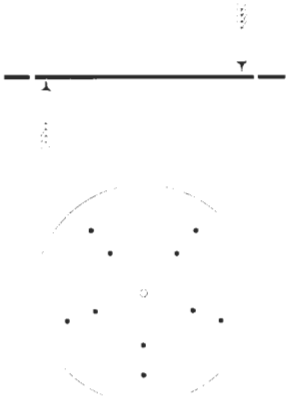
Turntable.

Counterweight.

Pickup cartridge with protective cap.

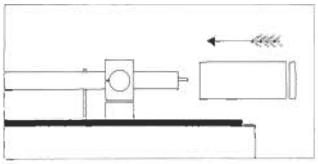
Center Adapter for Large Record Hole.

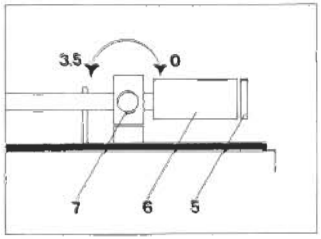
Dust cover.

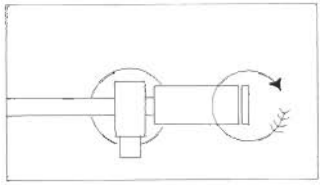


Turntable

After having turned the three screws anti-clockwise, simply place the turntable on top of the smaller under-turntable. The easiest way to take off the turntable is to proceed as shown in this sketch. A slight pressure applied close to the front of the cabinet will tilt up the turntable on the opposite side.







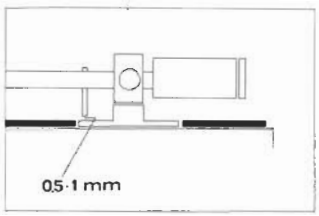
Counterweight and Pickup

Mounting the counterweight and pickup cartridge, and balancing the pickup arm, should be carried out with great care. Undistorted reproduction and low record wear are directly dependent on correct balancing and correct stylus pressure. Accordingly, before applying power to your Beogram 2000 proceed as follows:

1. Slide the counterweight (6) in on the short end of the pick-up-arm (note the cutout on the under side of the arm and a matching guide pin inside the counterweight). Then screw the counterweight's rotatable section (5) approx. five turns clockwise.

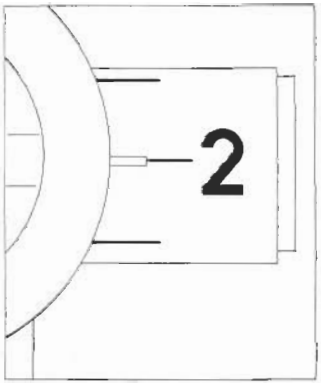
2. Turn the stylus pressure adjustment screw (7) to 0 gramme (pond) by turning it clockwise against the stop.

3. Plug the pickup cartridge (9) into the socket on the pick-up arm (be sure to press it home). It is advisable to hold the arm firmly when fitting the counterweight so that the bearings will not be damaged. Remove the protective cap from the cartridge.



4. The pickup arm should now be capable of balancing so that the supporting leg can be made to "float" 0.5 - 1 mm above the surface below it (see sketch). To adjust for exact balance turn the rotatable section (5) of the counterweight either clockwise or anti-clockwise.

Be sure to do this with the protective cap removed from the pickup.



5. The pickup arm is now balanced. Thereafter turn the stylus-pressure adjustment screw (7) so that the desired stylus pressure is obtained.

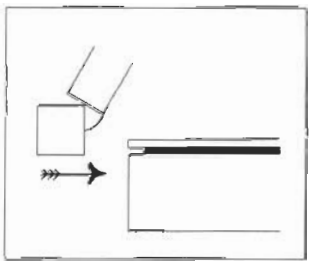
Recommended stylus pressure is 1.2 grammes (pond).

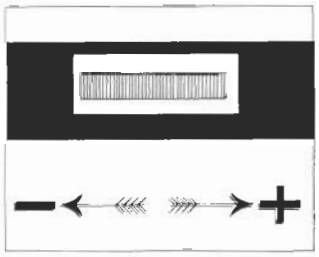
Connecting to an Amplifier or Radio Set

Your Beogram 2000 has a cable which is fitted with a DIN plug. Plug this cable into the low-impedance gramophone input socket of your amplifier or radio set.

Connecting to the Mains

As supplied from the factory, the Beogram 2000, type 5240, is switched for operation on 220 volts, 50 Hz, and may be operated on mains voltages between 190 and 265 volts. Switching to 110 volts 50 Hz requires a minor modification inside the set. The mains voltage range will then be 100 to 130 volts.



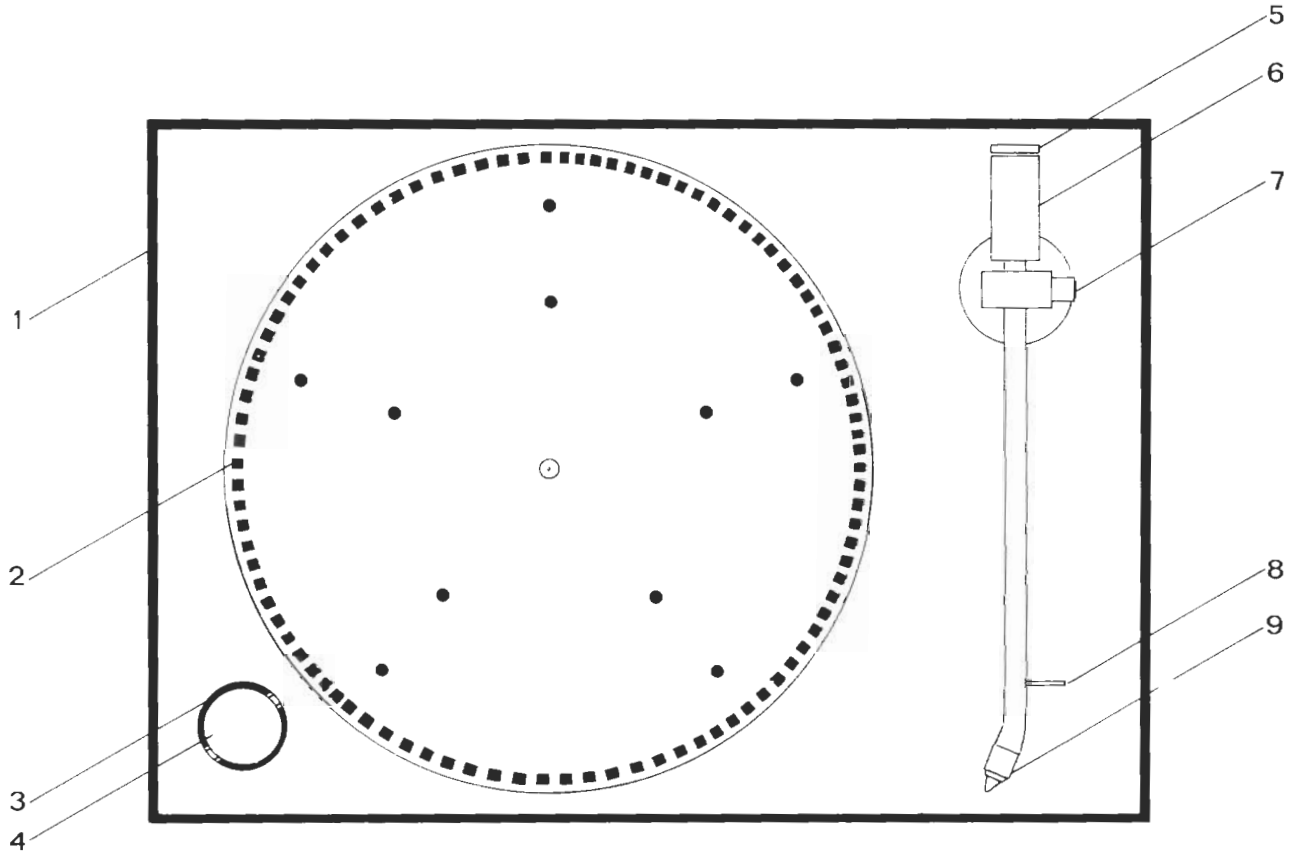


Dust Cover

To mount the dust cover, move it in over the rear edge of the top plate as shown in the sketch. The cover can stand in any position between closed and open, up to an angle of 60 degrees. The cover may be left closed during playing if desired.

Speed Adjustment

Fine adjustment of motor speed is carried out with an adjustment knob on the side of the unit while observing the stroboscope scale on the platter which must be illuminated by a lamp powered from the mains. Set the selector knob to 25 or 30. Turn the adjustment knob until the black fields appear to be stationary. If they are moving against the direction of rotation, the speed is too low, and the knob should then be turned towards +. Conversely, if the fields are moving in the direction of rotation, the speed is too high, and the knob should be turned towards −.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Key Plan

1 Vernier speed adjustment

2 Turntable with stroboscopic scale

3 Selector knob

4 LIFT button

5 Counterweight adjustment

6 Counterweight

7 Stylus pressure adjustment screw

8 Finger grip

9 Pickup cartridge

Operation

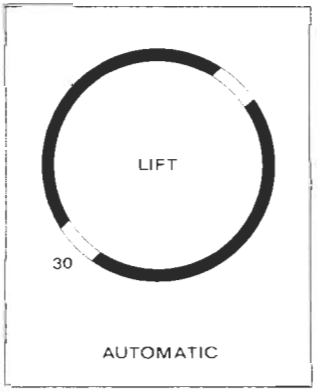
Operation of the Beogram 2000 is very simple because all functions are controlled by a central knob.

AUTOMATIC

The rotatable knob section selects record size and speed.

LIFT

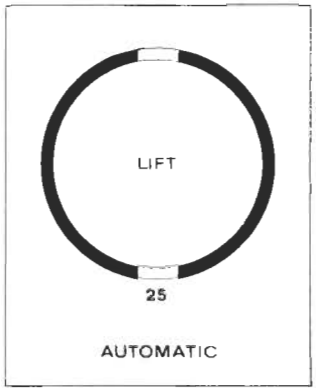
The LIFT pushbutton starts the motor and the automatic pickup control mechanism. This button is also used as pause control and for restarting. The red pilot lamp is on while the automatic mechanism is operative (see arrow in above sketch).



30 cm.

Put on a record and turn the selector to the 30 position. The speed will then be 33 1/3 r.p.m. Start the motor by pressing the LIFT button. The pickup will automatically move into position and lower into the starting groove on the record.

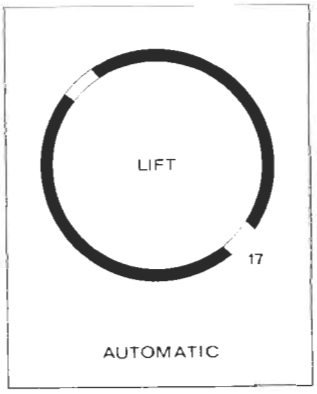
When the record has finished, the pickup will automatically rise and travel out to its position of rest, and the motor will stop.



25 cm

Put on a record and turn the selector to the 25 position. The speed will then be 33 1/3 r.p.m. Start the motor by pressing the LIFT button. The pickup will automatically move into position and lower into the starting groove on the record.

When the record has finished, the pickup will automatically rise and travel out to its position of rest, and the motor will stop.



17 cm

Put on a record and turn the selector to the 17 position. The speed will then be 45 r.p.m. Start the motor by pressing the LIFT button. The pickup will automatically move into position and lower into the starting groove on the record.

When the record has finished, the pickup will automatically rise and travel out to its position of rest, and the motor will stop.

INTERNATIONAL GUARANTEE

Garantie Internationale

Pour cet appareil, Bang & Olufsen offre une garantie contre tout vice de fabrication et défaut de matière.

La garantie est donnée par l'intermédiaire du **Distributeur Affilié** B & O qui a vendu **l'appareil.**

La Garantie n'est pas uniquement valable dans le pays où vous avez acheté l'appareil.

Vous pouvez, **dans un autre pays,** vous adresser au Distributeur Affilié Bang & Olufsen le plus proche de votre domicile, ou chez l'Agent importateur Bang & Olufsen. Les noms et adresses de ces agents sont indiqués page suivante. Ces agents importateurs vous communiquerons la liste des Distributeurs Affiliés Bang & Olufsen chargés d'assumer la garantie internationale.

Pour pouvoir bénéficier de la garantie internationale, il est nécessaire de présenter le Bon de Garantie sur lequel le Distributeur Affilié B & O, ayant effectué la vente, aura indiqué la date de la vente, le type de l'appareil, le numéro de fabrication ainsi que son cachet commercial et sa signature.

Les droits que vous avez acquis par ce certificat de garantie internationale sont exigibles lors d'une intervention à l'étranger où il peut exister d'autres accords de garantie qui sont propres au pays.

La garantie internationale donne droit à une maintenance gratuite comprenant la main d'œuvre ainsi que le remplacement des pièces défectueuses.

Bang & Olufsen
International Consumer Division

International Guarantee

This Bang & Olufsen product carries a guarantee against defects in workmanship and materials.

The guarantee is as a general rule extended to you through the authorized dealer who sold the set to you.

The guarantee is valid not merely in the country in which you purchased the set. While in another country you may apply to the nearest authorized Bang & Olufsen dealer, or to the nearest Bang & Olufsen sole distributor on the list of addresses overleaf. All you have to do is to produce an original signed guarantee certificate.

The guarantee is described in detail in the original Bang & Olufsen guarantee certificate, which you are entitled to have issued to you when you purchase the set and which must be filled in correctly: date of purchase, type and production number of the set, and the dealer's stamp and signature.

Your rights under this guarantee certificate also apply in countries whose national guarantee provisions may differ from those applying in the country where you purchased your set.

The international guarantee entitles you to technical service free of charge and covers both services rendered and defective parts.

Bang & Olufsen
International Consumer Division

Internationale Garantie

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Bang & Olufsen
International Consumer Division

Bang & Olufsen

Bang & Olufsen
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Serviceabteilung
1140 Wien
Cumberlandstrasse 16

Phone:(0222)827491

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15 Rue Liedts
1030 Brussels

Phone: 02/163680 - 163705

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Musimart of Canada Limited
970 McEachran Ave.
Montreal 154, P.Q.

Phone:514/273-8354

DENMARK
Bang & Olufsen a/s
7600 Struer

Phone:07/851122

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OY Bang & Olufsen AB
Kuortanegatan 1
SF - 005 10 Helsingfors 51

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97-99 Rue Damrémont
75 Paris 18e

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2000 Hamburg 1
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Phone:040/2874230-2874231

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P.O.Box 36
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Phone:02150-61824

HONG KONG
The Radio People Ltd.
25, Chatham Road
Kowloon

Phone:663241-2

IRELAND
Bang & Olufsen
United Kingdom Limited
Gloucester GL4 7DE

Phone:0452/21591

ISRAEL
Royal Electronics Limited
48 Hanamal Street
Haifa

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Via Ferri 6
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1030 Brussels

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Bragerhagen 35
3000 Drammen

Phone:02/836485-86-87

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Teltron (Pty) Ltd.
17 Faraday Street
Village Main
P.O.Box 264
Johannesburg

Phone:21-5664

SWEDEN
Bang & Olufsen Svenska AB
Grevgatan 58
11458 Stockholm

Phone:08/631260

SWITZERLAND
Bang & Olufsen
Kanalstrasse 27
8152 Glattbrugg

Phone (01)8100266

UNITED KINGDOM
Bang & Olufsen
United Kingdom Limited
Eastbrook Road
Gloucester GL4 7DE

Phone:0452/21591

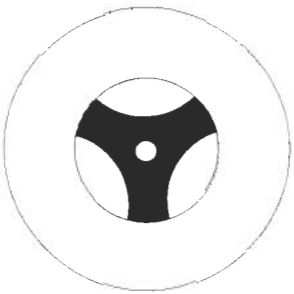
USA
Bang & Olufsen of America, Inc.
2271 Devon Avenue
Elk Groove Village
Ill. 60007

Phone: (312) 595 - 1320

If you want information about other addresses than the ones listed here you are welcome to write to

Bang & Olufsen a/s
International Consumer Division
Bomark
7600 Struer
Denmark

Bang & Olufsen



Special Records

17 cm, 33 1/3 r.p.m. These records require somewhat different operation. Set the selector to 30. Then lift the pickup arm by hand and move it in above the starting groove on the record. Start the motor by pressing the LIFT button. The pickup will now automatically lower on to the record. When the record has finished, the pickup will automatically rise and travel out to its position of rest, and the motor will stop.

Records with Large Centre Holes

When you want to play records with large center holes, fit the adapter which is provided.

Pause

If you wish to make a pause, brief or long, while playing a record, just press the LIFT button. The pickup will rise without travelling out, and the motor will stop.

When you press the LIFT button again, the motor will start again and the pickup will lower into the same groove.

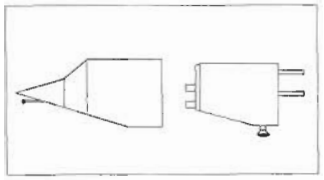
LIFT

Stop before End of Record

Press the LIFT button. The pickup will rise, and the motor stops. You may now move the pickup arm out manually, and your Beogram 2000 is ready to start from the beginning of the same record, or you may put on another record.

Incorrect Operation

Your Beogram 2000 will not suffer damage even if you inadvertently operate the controls while the automatic control system is operating. This may cause the motor to stop, but it will function normally again when you start again "from scratch". Do not obstruct the movements of the pickup arm while it is under automatic control. When the stylus has been lowered to the record, or when the arm is raised, the pickup arm can be moved with the finger grip without risk, inside the range in which the arm is normally moved automatically.



Dust Removal

Always dust your records before use with one of the antistatic aids which are commercially available.

The diamond may be cleaned of dust if care is taken, using a soft brush etc.

Replacing the Stylus Assembly

If the stylus assembly has suffered damage and requires replacement, the pickup cartridge should be unplugged from the arm. Hold the pickup arm firmly while pulling so as to avoid damaging the arm bearings. Loosen the screw on the under side of the cartridge; the complete stylus assembly can now be taken off and replaced with a new one (type 8905429).

When mounting the new stylus assembly take care to press it home before tightening the screw.

SP 12 A

NOTE

Your Beogram 2000 is only guaranteed to deliver optimum performance and meet its specifications if genuine B&O stylus assembly is used. Therefore beware of imitations; use only original B&O stylus assemblies for replacement.

Genuine B&O stylus assemblies are only delivered in closed packings as shown on this sketch.

Elliptical Diamond

As supplied to you, your BEOGRAM 2000 is equipped with an SP 10 A pickup, type 8905425, which uses a 15-micron spherical naked diamond.

A separately available accessory is the SP 12 A pickup, type 8905427, which features the same high-compliance stylus suspension and stylus pressure as the SP 10 A but uses a 5 x 17 micron elliptic naked diamond. The SP 12 A will give you minimum distortion in the treble range and accurate tracking of even the most exacting recordings.

The replacement assembly for the SP 12 A carries the designation 8905430.

Checking the Stylus Pressure

After replacement of the pick-up cartridge or stylus assembly it is advisable to check the stylus pressure and, if necessary, readjust the counterweight as described on page 2.

Be careful with the stylus! Put the stylus guard on before wiping the metal surfaces of your Beogram 2000.

Maintenance

The external surfaces of your Beogram 2000 can as a rule be kept clean with a dry cloth. Any grease spots on metal surfaces can be removed with a soft cloth moistened in a cold or lukewarm solution of detergent in water, followed by thorough drying with a dry cloth.

Dust Cover

Repeated wiping with a dry cloth will eventually cause the dust cover to accumulate a static charge. Therefore occasionally use detergent for wiping. **Use of alcohol is inadvisable as this may dissolve the material.**

Teak and Rosewood

If the cabinet surfaces seem grey and dry you may apply a thin film of teak or rosewood oil but not more than once or twice a year. Use a thin grade of oil, especially for rosewood.

Blond Oak Cabinet

To remove dark spots, use acetone. Do not use oil under any circumstances - even non-oil detergent or wax can cause discoloration of the surface. If more extensive treatment or repairs are required you should leave this to your dealer.

TECHNICAL DATA	BEOGRAM 2000
Type No.	**5240-5244**
Sound system	Stereo, matrix
Output	2 x 1 mV
Speeds	33 - 45 rpm
Tonearm	Radial
Pickup cartridge	SP 10 A
Automatic pickup movement	Yes
Automatic speed selection	Yes
Wow and flutter, DIN	$<\pm$ 0,12%
Wow and flutter, WRMS	$<\pm$ 0,06%
Rumble DIN unweighted	$>$ 37 dB
Rumble DIN weighted	$>$ 60 dB
Speed deviation	$<$ 0,1%
Speed control range	$>$6%
Dial for speed	Stroboscope 295 mm
Stylus pressure range	0 - 3,5 gram
Tangential tracking error	0,126°/cm
Lift system	Mechanical
Antiskating	Inclined channelling inside bearing
Motor	Asynchronous
Drive system	Idler wheel and belt
Turntable	30 cm 1.4 kg
Dust cover	Hinged and detachable
Power supply	220 (110) volts
Frequency	50 Hz
Power consumption	10 watts
Dimensions W x H x D	44 x 12 x 33 cm
Weight	7.5 kg
Pickup	SP 10 A
Stylus	Spherical naked diamond
Radius of curvature	15 µm
Frequency range	20 - 25.000 Hz $\pm$ 3 dB
	50 - 16.000 Hz $\pm$ 2 dB
Channel separation 1000 Hz	$>$ 25 dB
400 - 10.000 Hz	$>$ 20 dB
Channel difference	$<$ 2 dB
Intermodulation	$<$ 1%
Recommended stylus pressure	2 gram
Compliance	25 x 10^{-6} cm/dyn
Effective tip mass	0.8 mg
Output mV/cm/sec.	1 mV/47 k ohms
Subject to change without notice	

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